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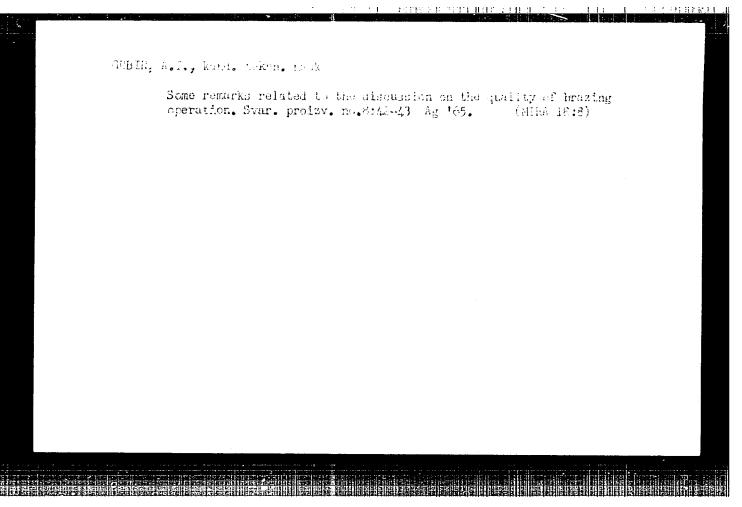
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and fluxes and also concerning the addition materials and inert gases utilized in welding and soldering ducts with a gas torch and with high-frequency current. The causes of the formation of defects are analysed, as well as methods of prevention. In ducting. Information is given concerning the design of welded and soldered joints
in ducting. Information is given concerning the strength of ducts under static and dynamic loading.
TABLE OF COVIEWIS:
Foreword 3 Ch. I. Basic information concerning ducts 5 1. Material of ducts and joint elements - 5
2. Elements of design and classification of ducts - 9 3. Manufacture, bending, and assembly of ducts - 19 4. Checking the qualifications of welders and solderers - 26 Ch. II. Technology of welding ducts - 28
1. Selecting the welding method = 28 2. Manual welding of steel ducting = 33
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5. Gas-flame solder 6. Induction solder 7. Control of solder	made of aluminum lding of ducts - seams and correc y of soldering du kes 55 62 eating method for ring of steel duc ring of ducting m ring of ducts ered joints and c e in welding and eatment of ducts eide surface of de incts 86	e of steel and alloys - 42 - 47 tion of flaws cts - 55 soldering - 65 sde of nonferr 70 orrection of f soldering - 84 acts - 84	48 - 64 - 62	68	

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	ACCESSION NR AM5002721 BOOK EXPLOITATION S/
	Gubin, Aleksandr Ivanovich
	Soldering stainless steel and heat-resistant alloys (Payka nershaveyushchikh
	staley i sharoprochnykh splavov), Moscow, Izd-vo "Mashinostroyeniye", 1964, 127 p. illus., 5,000 copies printed.
	TOPIC TAGS: soldering, soldering flux, stainless steel, heat resistant alloy
	PURPOSE AND COVERAGE: This booklet discusses domestic and foreign experience in
	the soldering of stainless steels and hest-resistant alloys. Basic information is included on the design and strength of soldered joints and methods of
	preparing parts for soldering. The most common solders, fluxes, and controlled atmospheres are described and their areas of application are pointed out.
7-18-1	Various soldering methods and defects in soldered joints and methods of pre-
	venting them are discussed; the basic safety rules in soldering and preparing solders are included. The book is intended for designers and engineers in
	various branches of machine building who encounter in their work problems of soldering stainless steels and heat-resistant alloys.
	TABLE OF CONTENTS [abridged]:
	서 사고 하다면 그 회에 선생님이 사용하는 사람들은 사람들이 되었다면 하는데 이번 경험되었다. 그 그 바쁜 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은

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3180-66 EPA(s)-2/EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWA(h)/EWA(c)JD/HM ACCESSION NR: AP5015547 UR/0286/65/000/008/0086/0086 A. I.; Katsman, B. O.; Reznik, N. P.; Zhukovskaya, Ye. A.; AUTHORS: Gubin. Shitikova, V. I. TITLE: A solder for soldering. Class 49, No. 170268 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 8, 1965, 86 TOPIC TAGS: solder, soldering, silver, tin, copper, antimony, lead, phosphorus ABSTRACT: This Author Certificate presents a solder for soldering electric conductors with silver-silicate strips, containing tin, lead, antimony, and copper. To diminish the dissolution of silver in the silver-silicate strips and to strengthen the connection, 5% of silver and 0.1% of phosphorus are introduced into the solder, while its other components are held at the following percent composition: 40.0 5.0

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JTHOR: Gubin, A. I. (Candi	date of technical sciences); Dobkina, Ye. N. (Engineer)
]4	alloys for stainless steels and heat-resistant alloys (6) Istvo, no. 8, 1966, 25-27
opic TAGS: stainless steel,	heat resistant alloy, stainless that heat // wing alloy, self-sharing hrazing alloy/VPr-4 brazing alloy, azing alloy, 1KhN9T steel, El 437 alloy
razing alloys offers numerous ffinity with oxygen, such as razed metal components or form f experiments, a new self-fiertificate No. 126730), This razing of stainless steels with the as-cast collegestion of 9-137, and a consertion of 9-1	as steels and heat-resistant alloys with self-fluxing as advantages. These alloys contain elements with a high boron, silicon and lithium, which reduce oxides of low-melting compounds with these oxides. On the basis duxing brazing alloy VPr-4 has been developed (Author is alloy can be successfully used for high-frequency without any flux and shielding atmosphere. It melts at condition, it has a tensile strength of 69—76 kg/mm², and density of 8.03 g/cm³. The shear strength of lKh18N9T
and the board of the More	-4 alloy is 45-52, 33-40, 29-33, 26-31, 25-28 and 16 400, 500 and 600C, respectively. Two other self-fluxing

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ABSTRACT: This Author Certificand silver for soldering product all climatic conditions, the cion: antimony 1 ± 0.3 ; copper	e composition is tolere	d joints resisting co	rrosion
OPIC TAGS: solder, soldering			
	lennyye obraztsy, tovar		966, 135
FITLE: A solder for soldering	of products. Class 49	, No. 183037	
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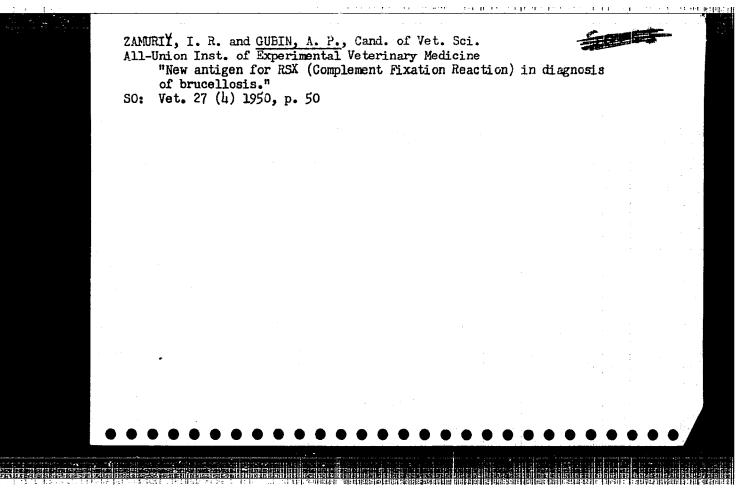
GUEIN, A. F.

Nakatyvanie rez'by rolikami: Sverdlovsk, Mashgiz, 1947. 133 p. diagrs.
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Thread-rolling.

DIC: TJ1222.G85

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- USSR (600) 2.
- Strangles
- 7. Testing the therapeutic effect of ASD (Dorogov's active stimulant) in strangles. Trudy Vses. inst. eksp. vet. no 1: 52.

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1. GUBIN, A. P .: PODDUBSKIY, I. V., Prof., YASHENKINA, M. I.



2. USSR (600)

- 4. Horses Diseases
- 7. Allo-biophoric method in the diagnosis of infectious anemia of horses.
 Trudy Vses.inst.edsp.vet. 19 no. 1 1952

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GUBIN, A.P., kand.vet.nauk; SHABUROV, M.S., kand.vet.nauk

Problem of contact infection of horses with infectious anemia.

Veterinariia 36 no.2:38-40 F '59. (MIRA 12:2)

(Infectious anemia)

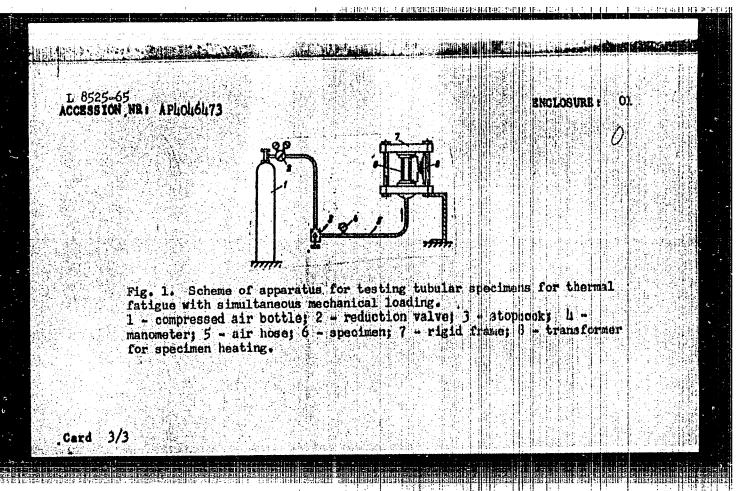
GUBIN, A.P., kand.veterin.nauk; SHABUROV, M.S., kand.veterin.nauk

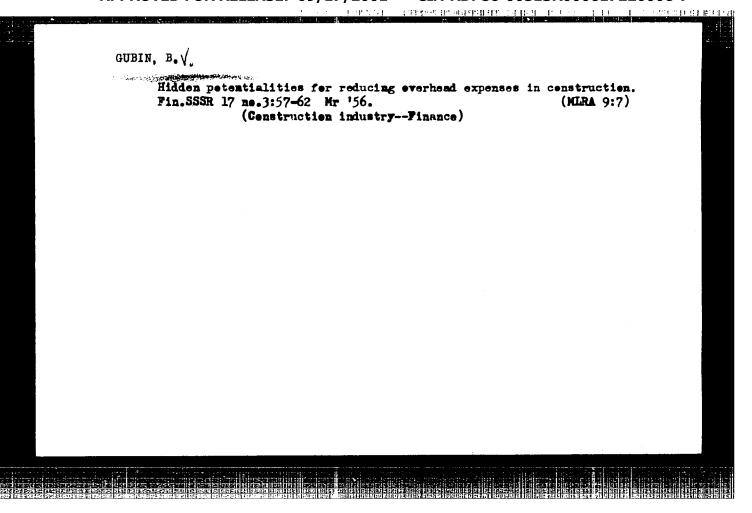
Virulent properties of dry virus of infectious anemia of
horses. Veterinariia 36 no.10:28-30 0 59. (MIRA 13:1)

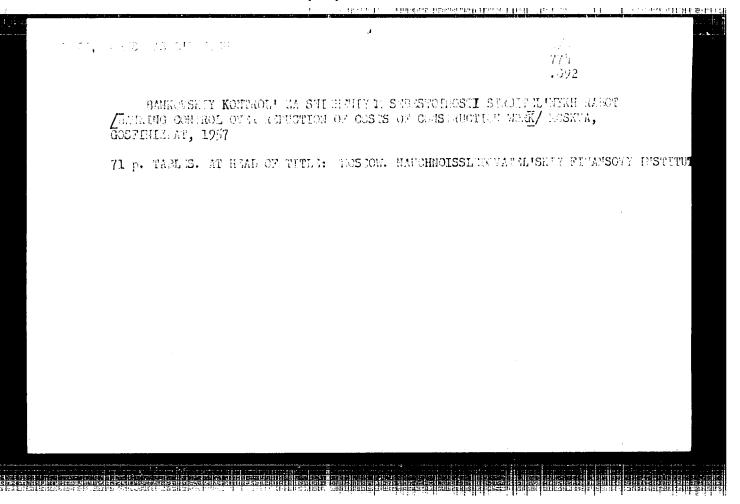
1. Vsesoyuznyy institut eksperimental'noy veterinarii (VIEV). (Infectious anemia) (Viruses)

ASD(1)/AFETR/AFWL/SSD ENT(m)/ENP(q)/ENP(r)/ENP(b) 5/0032/64/030/010/1254/1255 ACCESSION NR: AP4046473 AUTHORS: Balandin, Yu. F.; Gubin, A. V. TITLE: Testing on thermal fatigue, with supplementary mechanical loading action SOURCE: Zavodskaya laboratoriya, v. 30, no. 10, 1964, 1254-1255 TOPIC TAGS: thermal stress, mechanical stress, material testing/ IEhl8N9T/ steel ABSTRACT: The authors described a method of materials testing using compatible mechanical loading and thermal cyclic stress. The testing device is based upon the apparatus designed by L. Coffin and R. Wesley (Trans. ASME, v. 76, No. 6, p. 923, 1954) for thermal fatigue testing with periodic heating and cooling. A schematic view of the apparatus is shown in Fig. 1 on the Enclosure. Tangential stress in the tube is determined by where p is the internal pressure, R is the outer tube radius, and r is the inner tube radius. Internal pressure on the specimen creates a constantly applied mechanical stress, and cyclic thermal deformation is caused by alternate heating by electric current and air-cooling. The magnitude of full deformation through one cycle is approximated by $\propto \triangle$ T, where \propto is the mean coefficient of linear expansion and \triangle T is the minimum-to-maximum temperature change; allowands is made for uneven Cord 1/3

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mine resistance to the loading. Results are tion versus stress fr	ion along the specimen length. Tests we ermal fatigue of IKhi8N9T steel under su presented in a plot with the number of om internal pressure as axes; results in cal loading does not noticeably influences, art. has: 2 figures and 1 formula.	cycles until destruc-
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GUBIN. B.V., red.; RYUMIN, S.M., red.

[Problems in economising materials in construction work] Voprosy ekonomii materialov v stroitel'stve; sbornik. Moskva. Gosfinisdat, 1958. 170 p. (MIRA 13:8)

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GUBIN, B.; TIMOSHENKO, I.; ZAYDMAN, L.

Indices of industrial production costs. Fin. SSSR 21 no.11:52-58
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2. Zamestitel' nachal'nika finansovogo otdela Moldavskogo sovnarkhoza (for Zaydman).

(Costs, Industrial)

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ARTEMOV, Yu.M., kand. ekonom. nauk; GAL'PERIN, N.S., kand. ekon. nauk; GUBIN,

B.V., kand. ekon. nauk; ZHUKOV, V.N., kand. ekon. nauk; OCHKOV, M.S.

kand. ekon. nauk; OSKORDOV, V.P., starshiy ekonomist; BARNGOL'STS, S.B.,

dotsent, kand. ekon. nauk; SIBIRYAKOV, L.Ye.; IVANOV, N.N.; RABINOVICH,

M.A., ekspert; LIPSITS, V.B., kand. ekon. nauk; VOLKOV, S.I., kand.

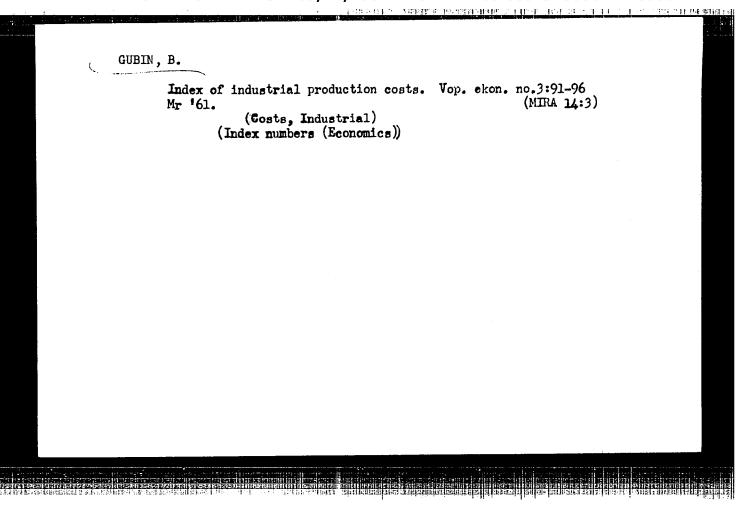
ekon. nauk; KOROLEVA, Ye.P., aspirantka; RYUMIN, S.M., red.; SUBBOTINA, K.,

red.; TELEGINA, T., tekhn. red.

[Planning and calculating the cost of industrial production] Voprosy planirovaniia i kal'kulirovaniia sebestoimosti promyshlennoi produktsii. Moskva, Gosfinizdat, 1961. 183 p. (MIRA 14:8)

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(Costs. Industrial)



USATOV, I.A., kand. ekon. nauk; GUBIN, B.V., kand. ekon. nauk; SMINNOV, A.D., dots.; LAPTEV, Y.S.N.; MOZHIN, V.P., kand. ekon. nauk; GUMEROV, R.M.; KORYUNOV, S.N.; PSHENICHNYY, P.P.; MYMOV, N.M.; FILATOV, N.L.; FILIPPOVA, E., red. izd-va; LEBEDEV, A., tekhn. red.

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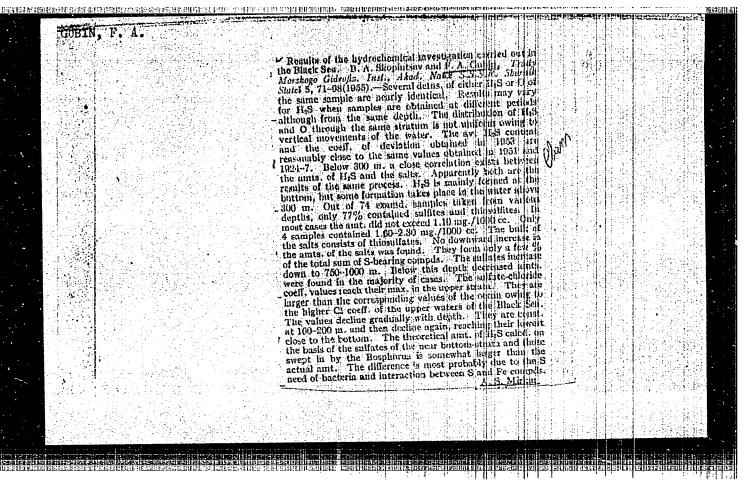
GUBIN, Boris Vasil'yevich; SMIRNOV, Aleksandr Dmitriyevich; USATOV,

Ivan Andreyevich; GOLUBNICHIY I., red.; VORONINA, R.,

tekhn. red.

[Principles of socialist management in industry] Osnovy sotsialisticheskogo khoziaistvovaniia v promyshlennosti. Moskva, Vysshaia shkola, 1963. 226 p. (MIRA 17:3)

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SKOPINTSHV, B.A.; GUBIN, F.A.

Shifates in the Black Sea water. Gidrokhim. mat. 25:16-27 *55.

(MLRA 9:6)

1.Morskey gidrofisicheskiy institut Akademii mauk SSSR.

(Black Sea--Sulfates)

Akademiya menk 2500. Herebey gidrefiziohenkiy institut Termin merya, Ehiniya merya (Thermal Regime of the Sen. Chemistry of the Sen.) Hemedy, AM 2500, 185 p. (Series: Its: Trudy, tem 13) Errata slip inserted. 1,300 capics printed. Resp. M.: A.S. Eclosnikov, Dector of Physical and Mathematical Sciences; Ed. of Publishing House: L.E. Hikolayeva; Tech. Mi.: H.F. Tegareva. FUNCES: This collection of articles is intended for geophysicists, hydroghysicists, and occanographers. COVERAMS: These articles deal with problems in the physics and chemistry of sea water. Individual papers treat the turbulent thermal conductivity and heat exhange in sea water, the pleations in air temperature, the salinity of the Black Sen, the determination of collens, mageacium, and capper in sea water, and the determination of collens in atmospheric precipitates. Figures, tables, and graphs accompany the articles. There are 121 references: 92 Soviet, 18 Mariah. Serman. 2 French. and 1 Sandish. Agrava, H.L. Hen-Stationary Liquid Exchange Setween Tee Reservation of Mathematical Physical Exchange Setween Tee Reservation of Physical Physical Exchange Setween Tee Reservations.	
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Chaptatory, B.A., P.A. Cabin, R.Y. Vereb'ern, and O.A. Vershinina. Thin Components in the Selt Composition of Black See Vater and Problems of Vater Circulation 89	
Empiritory, B.A. A Study of the Composition of Suspended Sub- stances and Sulered Organic Compounds in the Aser and Black Seas 113	
Shepistory, B.A., and V.Y. Estanov, in Integrated Rethod for . Substanting Calcium and Regressium in Sea Waters 130	
History, H.E., and V.E. Maverenking. The Froblem of Deter- mining Copper in Sea Water 137	

AUTHORS:

Skopintsev, B. A., Gubin, F. A., Vorob'yeva, R. V., Vershinina, O. A. 20-119-1-33/52

TITLE:

The Composition of the Salts of the Chernoye Sea (Black Sea)

(Solevoy sostav vody Chernogo morya)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 1,

pp. 121-124 (USSR)

ABSTRACT:

In October 1954 and in June 1955 water samples were taken at 5 points from all depths in the open part of the sea near the 43th degree north latitude. The chlorine content was determined argentometrically, the alkalinity by direct titration with HCl, the sulfates by the weight method and Ca as well as Mg complexometrically. Table 1 gives the average quantities of this determination. The highest content deviations of individual components at the same depths of all 5 places from the average attained 4%, which was characteristic of the upper layer (0-150 m). Farther down the deviations are less than 1%, except Ca and alkalinity. The absolute content of all salt components in the Chernoye Sea (Black Sea) is smaller than in the ocean, except the alkalinity. The chlorine content increases from the surface to the bottom. The change

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CIA-RDP86-00513R000617220006-7"

APPROVED FOR RELEASE: 09/17/2001

The Composition of the Salts of the Chernoye Sea (Black Sea) 20-119-1-33/52

of other ions at the vertical is represented in table 2 as ratio to the chlorine content. In this manner the contents are compared with those of the oceans, where the latter are constant (ref. 1). The elevated values of the cited coefficients in the upper 200 m of the Chernoye Sea can be explained by a comparatively higher influence of the waters of the flow of the rivers for the higher values of these coefficients than they are characteristic for the ocean. The changes of the ratios

 $\frac{SO_4}{Cl~(\%_0)}$ and $\frac{HCO_3}{Cl~(\%_0)}$ are connected with the biochemical and biological processes occurring in the Chernoye Sea: a) the reduction of SO_4^{2-} at the bottom of the sea with a simultaneous formation of hydrogen sulfide and HCO_3^{-} , b) the oxidation of H_2S in an intermediary zone (from 125-150 m to 250-300 m) under formation of sulfates and a corresponding decrease in HCO_3^{-} (ref. 2). A marked change of Ca^{2+} in the water near the bottom was not observed. Table 3 gives the calculated average composition of the water in the Chernoye Sea. Little difference in comparison with reference 4 is to

Card 2/4

The Composition of the Salts of the Chernoye Sea (Black Sea) 20-119-1-33/52

be found. At a depth of 150 m from the bottom the salt content is close to the average content of ocean water (ref. 1). Further the salt content in the Chernoye Sea at a depth of 0,150 and 2000 m was calculated. According to the modern conception of the water balance of the Chernoye Sea 400 km2 water annually run out through the Bosfor (Bosporus). The river-flow into the sea is 550 km². From this the average quantity of salt is calculated which is brought out through the Bosfor (Bosporus) and which is brought in with the rivers. As the salt balance of the Chernoye Sea is balanced, the difference resulting from the above-mentioned components represents that quantity of salt which annualy runs into the Chernoye Sea from the Mramornoye (Marmara) Sea. The waters coming in this way amount to ~195 km3. In order to maintain equilibrium concentrations of Ca2+ and HCO3 in the Chernoye Sea, 12 or 85 km3 respectively less of water from the Mramornoye Sea is needed. The quantity of CaCO, corresponding to the above-mentioned quantities of the Marmara-water will evidently be precipitated from the water of the Chernoye Sea. For Ca2+ they represent 5,4.106 tons or about ~30% of the

Card 3/4

The Composition of the Salts of the Chernoye Sea (Black Sea) 20-119-1-33/52

Ca²⁺ annualy brought into the Chernoye Sea by the rivers. Such a chemogeneous carbonate-sedimentation mainly takes place in the region near the coast (references 3,5). Then the authors discuss the statements of reference 8 and state that for the displacement of a water layer of 17 m thickness about 130 years would be necessary, which disproves the above-mentioned statements. There are 3 tables and 8

references, 8 of which are Soviet.

ASSOCIATION: Morskoy gidrofizicheskiy institut Akademii nauk SSSR

(Marine Hydrophysical Institute AS USSR)

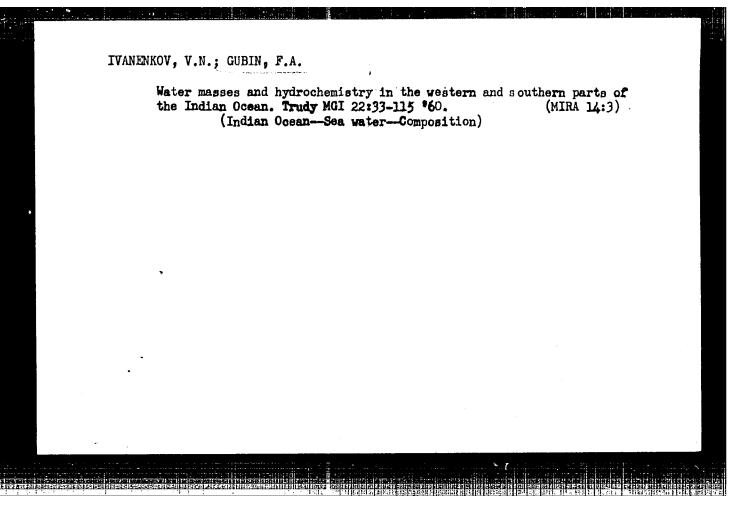
July 13, 1957, by N. M. Strakhov, Member, Academy of PRESENTED:

Sciences, USSR

SUBMITTED: May 12, 1957

Card 4/4

医疗性的



GURIN, F. F. Prof., and AYVAZ'YAN, V. G. Dr. Tekh. Sci.

Studies

"Report on the Technico-Ecohomic XXXIIII in Hydropower Construction Projects," abstracted in Gidrotekh. stroi., Nos. 5/6, pp. 28-29, 1946.

Clavgidroenergstroy

GUBIN, F.F.: KRIVCHENKO, G.I., kandidat tekhnicheskikh nauk, redaktor; CHAROV, A.D., tekhnicheskiy redaktor.

[Collection of designs of hydroelectric power stations] Atlas gidroelektricheskikh stantsii. Moskva, Gos.energ.izd-vo 1948. 60 plans (in portfolio). Supplement - [Explanatory note] Poissnitel naia zapiska. 53 p. (MIRA 8:4)

(Hydroelectric power stations)

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GUBIN, F. F., Professor

Doc Tech Sci

Dissertation: "riydroelectric Power Stations." 28/3/50

Moscow Order of the Labor Red Banner Engineering Construction Inst imeni

SO Vecheryaya Moskva Sum 71

GUBIN, F. F.

Feb 52

USSR/Geophysics - Hydroelectric Tams

"The Most Modern Hydroelectric Power Plants," Prof F. F. Gubin, Dr Tech Sci and Stalin Prize Winner

Priroda, No 2, pp 9-11

States that present large-scale Soviet hydroelectric plants (on the Volga, Oka, Dnepr, etc.) were constructed by engineers trained by Acad B. Ye. Vedeneyev, G. O. Graftio, A. V. Vinter, S. Ya. Zhuk (Stalin Prize winner), Dr Tech Sci V. D. Zhurin, and others. Remarks that the efficiency of the turbines is 90-92% and that of generators is 96-97%.

263**T9**4

कराव दूरारा कर जा पुराव आसार <u>जा राज्य के लि</u>हा जा जा जा जा

GUBIN. F.F., doktor tekhnicheskikh nauk, professor, laureat Stalinskoy premii.

On-the-spot account of the building of the Mingechaur Hydroelectric Power Station. Nauka i zhizn' 20 no.6:5-7 Je '53. (MLRA 6:6)

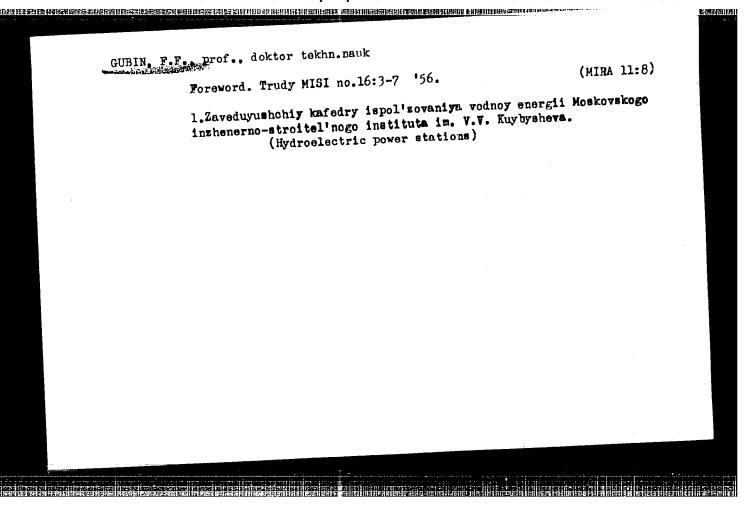
(Mingechaur Hydroelectric Power Station) (Hydroelectric power stations)

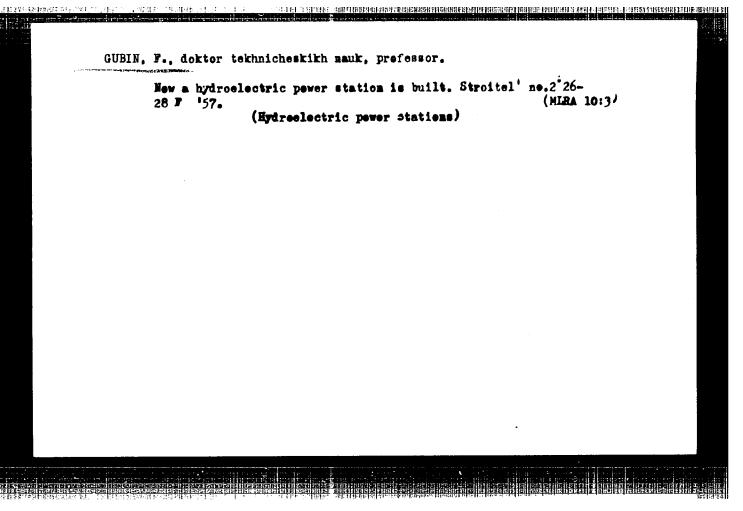
DZHULKOVSKIY, N.N., professor, doktor tekhnicheskikh nauk; BLIZNYAK,
Ye.V., professor; GUBIN, F.F., professor; ABRAMOV, N.N. professor
ROZANOV, M.P., VORGOV, F.A., BORCDIN, P.V., POSIEDOV, M.A.
YURIVICH, D.P., PERSON, N.N., tekhnicheskiy redaktor.

[Introduction to hydraulic engineering] Vvedenie v gidrotekhniku.
Moskya, Gos.izd-vo lit-ry po stroit. i arkhit. 1955. 301 p.

(Hydraulic engineering)

(HLRA 8;8)





Gubra, f.t.

98-1-7/20

Gubin, F.F., Prigorovskiy, N.I., Doctors of Technical AUTHORS:

Sciences, Professors and Khesin, G.L., Engineer

Investigations of a Built-in Hydroelectric Power Plant With TITLE:

a High Massive Dam (Issledovaniya vstroyennogo varianta gidro-

elektrostantsii s vysokoy massivnoy plotinoy)

Gidrotechnicheskoye Stroitel'stvo, 1958, # 1, pp 29-36 (USSR) PERIODICAL:

Tensions occuring within the structure of built-in type hydro-electric power plants during the periods of construction ABSTRACT:

and operation are influenced by several factors, of which the most essential are the pressure of the water from the head water and the weight of the installation itself. The strains which might occur at various transverse profiles in the design of the Bratsk Hydroelectric Power Plant were examined in detail for the preparation of the technical project. As a result

of these studies a profile was developed for future projects which showed a more favorable distribution of stress than pre-

vious designs. The article deals with the methods of research Card 1/5

98-1-7/20

Investigations of a Built-in Hydroelectric Power Plant With a High Massive Dam

and the results obtained. Investigations were facilitated and analyses were simplified by making pressure measurements of weight and hydrostatic pressure separately. The authors present several formulas of the effects produced by pressure from the outside and by the weight of the installation. Experiments were conducted on flexible models which were subjected to strains up to the limits of elasticity. To insure reliability of results, the following two types of three-dimensional and flat models were used: 1) Tensometric models consisting of materials with a low modulus of longitudinal elasticity (organic glass, neoleucorite). 2) Optical models of transparent, optically active materials.

The deformations were measured by means of stress transducers with 10, 5 and 3 mm basis, glued onto the surface of the model or placed inside the model. The errors at measuring the deformation of the attached stress transducer by means of the electronic device "NCH-2 HMAH " do not exceed 2 - 4%. The authors present several formulas by which the tension inside the models given by the stress transducer can

Card 2/5

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98-1-7/20

Investigations of a Built-in Hydroelectric Power Plant With a High Massive

be computed. By using the data obtained from the inside loads, the hydrostatic pressure at different water levels of the reservoir can be established. The testing of tensometric models under realistic load conditions was carried out by a centrifugal machine of 2.6 m in diameter and by means of applying several concentrated loads to the gravity centers of the volumes of the model. New methods were made possible by using new "optically" active materials: styrene alkyd resin (material MИХМ-ИМАШ) and epoxymal (with resin ЭД-6 or 3-40). Special research, conducted with the Candidate of Technical Sciences N.A. Shchegolevskiy, showed the feasibility of producing optically active materials based on epoxy-type resin and "inoculated" polymers with a broad range of elasticity moduli. The separation of main stresses within the models which are subjected to the combined pressure of hydrostatic loads and their own weight is accomplished by numerical integration over the increments of tangential stresses. Besides, a less complicated method for separating the main stresses in flat models was developed with electric models using

Card 3/5

98-1-7/20

Investigations of a Built-in Hydroelectric Power Plant With a High Massive

current-conducting paper. Isolines obtained on electric models are shown in figure 1. Research conducted on flat optical models of stresses subjected to combined action of their own weight and hydrostatic load were carried out on models made from epoxymal, which permit to carry out the "freezing" of the model and to subject it subsequently to hydrostatic load at indoor temperatures. Volumetric tensions existing in different sections of the model were determined by means of cuts taken from "frozen" models, (figure 2) Examinations of the cuts were conducted by means of a polarization microscope "MII-2", and by applying a double-beamed light in the polarization device. The conducted experiments made the evaluation of the tensions prevailing in this type hydroelectric power plant at the combined stress from its own weight and hydrostatic pressure, during periods of operation possible, as well as at different stages of construction. They further permitted evaluation of the effect of different structural changes on the tension pre-

Card 4/5

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000617220006-7"

98-1-7/20

Investigations of a Built-in Hydroelectric Power Plant With a High Massive Dam

> vailing in the installation, and, in conformity with the findings, made it possible to recommend the most favorable structural shape. The tests also showed the relation existing between the tension within the installation and the filling of the reservoir and the sequence of pouring cement. The examinations disclosed the effects of various structural changes on the stress status of the building, and made possible the selection of the most favorable shape, dimensions and location of the machine hall. An analysis of the tests led to the general conclusion that tensions occuring within the hydroelectric power plants, both during the time of construction and operation, do not exceed safety limits. The stability of the installation or its component parts is not endangered, and there is no need for reinforcing.

There is 1 table, 6 figures and 4 Russian references.

AVAILABLE:

Library of Congress

Card 5/5

SOV/98-59-4-16/17

Gubin, F.F., Doctor of Technical Sciences, Profes-AUTHOR:

Bibliography (Bibliografiya) "The Turbine Equipment TITLE:

of the Hydroelectric Power Plants", Manual for Projecting, 2nd Edition, Revised and Supplemented, Under the General Editorship of Professor A.A. Morczov (Deceased) ("Turbinncye oborudovaniye gidrcelektrostantsiy", rukovodstvo dlya proyektirovaniya, izd. vtoroye, pererabotannoye i dopolnennoye, pod obshchey redaktsiyey prof. A.A. Morozova)

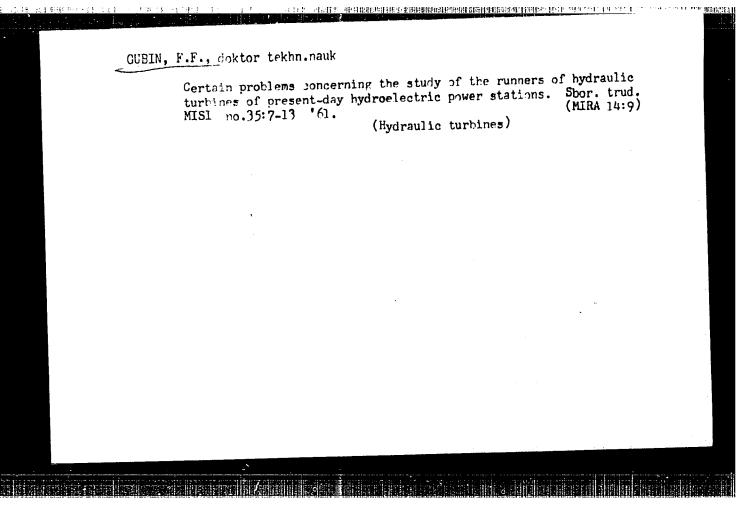
PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 4, pp

61-63 (USSR)

This is a review of the above mentioned book. ABSTRACT:

Card 1/1

CIA-RDP86-00513R000617220006-7" APPROVED FOR RELEASE: 09/17/2001



Choosing the relation of the height of a spiral inlet section

to the width. Izv.vys.uch.zav.; stroi. i arkhit. 5 no.4:137-144
162. (MIRA 15:9)

l. Moskovskiy ordena Trudovogo Krasnogo Znameni inzhenernostroitel'nyy institut imeni Kuybysheva. (Hydraulic turbines)

GUBIN, F.F., doktor tekhn.nauk, prof.; KHESIN, G.L., kand.tekhn.nauk;
SAKHAROV, V.N., inzh.

Using photoelastic coverings for studying the distribution of stresses and deformations in confrete structures. Gidr.stroi.
34 no.11:25-27 N '63.

के पुरस् र करावा पूर्ण परिवार समाप्त्र सामग्री होता पुरस्का प्राप्त के उन्हें के अपने के अपने के अपने के अपने

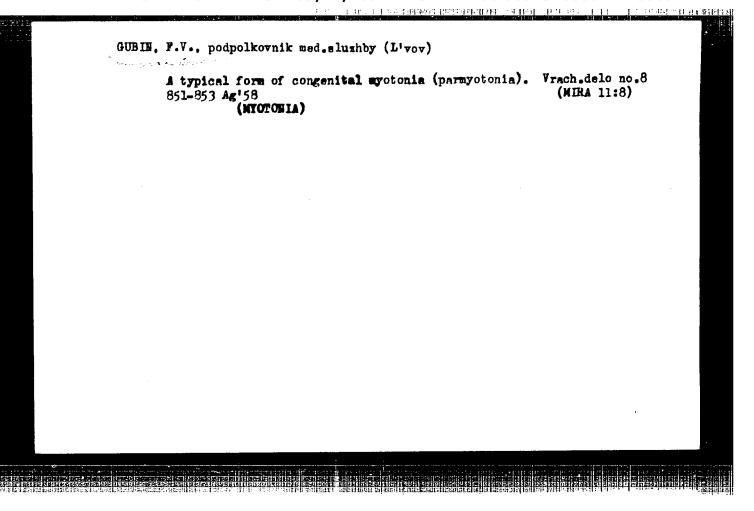
GUBIN, F.F., doktor tokhn. n.uk; KUPERMAN, V.L., kand. tekhn.

nauk; BELYAKOV, A.A., retsenzent; KVARDAKOV, A.F.,
dots., retsenzent; ORLOV, V.A., kand. tekhn. nauk, dots. nauchn. red.

[Economics of water management and hydraulic construction] Ekonomika vodnogo khozialstva i gidrotekhnicheskogo stroitelistva. Moskva, Stroitzdat, 1765. 302 p. (MIRA 18:8)

1. Zamestitel' Tekhnicheskogo Soveta Gosudarstvennogo proizvolstvennogo komiteta po energetike i elektrifikatisii SSSR (for Belyakov). 2. Zaveduyushchiy kafedroy gidravliki i gidroscoruzheniy Novosibirskogo inzhenernostroitel'rogo instituta im. V.V.Kuybysheva (for Kvardakov).

EWI(m)/EWP(1) RM ACC NR: AP6012083 SOURCE CODE: UR/0062/65/000/003/0580/0580 AUTHOR: Nesmeyanov, A. N.; Kozlovskiy, A. G.; Gubin, F. P.; Perevalova, E. G. ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet); Institute of Organoelemental Compounds, AN SSSR (Institut elementoorganicheskikh soyedineniy) TITLE: Protolysis of mercury derivatives of ferrocene SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 3, 1965, 580 TOPIC TAGS: titrimetry, ferrocene, mercury compound, dioxane, chlorine compound ABSTRACT: The Rate constants were determined for the protolysis of mercury derivatives of ferrocene -- chloromercuroferrocene and diferrocene-mercury using hydrochloric acid in 90% (by volume) aqueous dioxane. The quantity of acid not entering into reaction was determined by potentiometric titration. The reaction rate in all cases is described by a second-order kinetic equation. The protolysis rate of diferrocene mercury is six times greater than the cleavage rate of di-p-anisylmercury under the same conditions. Orig. art. has: 1 table. [JPRS] SUB CODE: 07 / SUBM DATE: 18Jan65 / ORIG REF: 002 UDC: 531.1+542.957 Card 1/1



"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000617220006-7 appoint continue of the con-

SOV/177-58-11-16/50 17(13)

Gubin, F.V., Lieutenant-Colonel of the Medical Corps AUTHOR:

From the Experience of Recognizing Neuropsychic Di-TITLE:

seases

Voyenno-meditsinskiy zhurnal, 1958, Nr 11, p 51 -PERIODICAL:

53 (USSR)

The article deals with recognizing neuropsychic di-ABSTRACT:

seases in military persons. The author stresses the importance of the cooperation of military

officers and commanders of different ranks.

to facilitate the commander's work, a special

scheme for official and medical characteristics was developed which has to be confirmed by the chief of the district medical corps and sent to the unit as a guide. The scheme contains the following questions: activity in the service, in social life, progress in studying, discipline, character of temper, easy

disposition in the collective, family conditions, physical development, interest in sports, beginning Card 1/2

CIA-RDP86-00513R000617220006-7" APPROVED FOR RELEASE: 09/17/2001

SOV/177-58-11-16/50

From the Experience of Recognizing Neuropsychic Diseases

of the independent working life, endured diseases, complaints on the state of health, spastic attacks. The well-timed and careful examination of military persons in order to diagnose neuropsychic diseases is very important for the treatment and prophylaxis of the disease and the decision whether the patient is suitable for military service. Patients with insufficient and unstable healing results are sent to the VVK (Military Medical Board). Patients, who are emotionally unstable are treated in the PMP (Regimental Medical Station). One case report is given.

Card 2/2

GUBIN, F.V., podpolkovnik med. sluzhby; IMSHCHINSKIY, S.D. (L'vov)

Pulmonary abscess complicated by acute appendicitis and brain abscess. Vrach. delo no.1:77-79 '59.

1. Okrushnoy gospital' pogranichnyth voysk (nauchnyy rukovoditel' - zaslushennyy deyatel' nauki, prof. Ye.V. Maslov).

(EUNOS--ABSCESS) (BRAIN--ABSCESS) (APPENDICITIS)

	Treatment of some diseases of the nervous system by intravenous drip injections of a 25 novocaine solution. Vrach.delo no.5:531 My '59. (MIRA 12:12)							
;	(NOVOCAINE)	(nervous system	DISRASES) (IN	TRAVENOUS THERAPY)	,			

GUBIN, G. D.

GUBIN, G. D. -- "Histochemical Characteristics of Tissue Preserved by the Method Developed by Academician V. P. Filatov. Sverdlovsk State Medical Inst. Sverdlovsk, 1955. (Dissertation for the Degree of Candidate of Medical Sciences.)

SO: Knizhnava letopis', No. 4, Moscow, 1956

स्य अङ्गारका प्राप्त स्था वा वा प्राप्त में प्राप्त स्था है।

GUBIN. G.D.

Quantitative changes of metabolites in tissue cultivated by V.P. Vilatov's method [with summary in English]. Biul.eksp. biol. i med. 46 no.10:92-96 0 58 (MIRA 11:11)

1. Iz kafedry obshchey biologii (sav. - prof. A.B. Trifonova)
Sverdlovskogo meditsinskogo instituta (dir. - prof. A.F. Zverev)
Predstavlena deystvitel'nym chlenom AMM SSSR V.N. Chernigovskim.

(TISSUE CULTURE,

Filatov's method, metab. aspects (Rus))

AUTHORS:
Gubin, G. D., Yurkina, A. K.

SOV/20-125-1-50/67

Histochemical Determination of Ribonucleic Acid
and Glycogen in the Tissues of Animals in Different
Physiological States (Gistokhimicheskoye opredeleniye
Physiological States (Gistokhimicheskoye opredeleniye
ribonukleinovoy kisloty i glikogena v tkanyakh zhivotnykh,
nakhodyashchikhsya v razlichnykh fiziologicheskikh
sostoyaniyakh)

PERIODICAL:
Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 1,
pp 185-187 (USSR)

ABSTRACT: The amount of ribonucleic acid varies in the case of tissue-injuries in 3 phases both in tissues of the intact organism and in isolated tissues (Refs 6 - 10). intact organism and in isolated tissues (Refs 6 - 10). In the case of "entering the place of injury" the amount of ribonucleic acid (RNA) decreases (I phase). With increasing degree of injury the amount of RNA with increases considerably. (II phase). In the case of an increases considerably and a destruction of the cell, the irreversible injury and a destruction of the cell, the amount of RNA decreases rapidly (Refs 1, 2, 4, 6, 8) in

amount of RNA decreases rapidly (Rels 1, 2, 4, 5, 6, 6). An consequence of a washing-out process (III phase). An injury implies also a change of glycolysis, i. e. an

Card 1/3

Histochemical Determination of Ribonucleic Acid SOV/20-125-1-50/67 and Glycogen in the Tissues of Animals in Different Physiological States

increase occurs (Refs 3, 11). It is the aim of the present investigation to clarify the character of the RNA and glycogen concentration in the tissues of healthy animals and of those suffering from avitaminosis or starving for a certain period of time. For this purpose the liver-tissue of 20 guinea-pigs was used (8 control animals, 4 with C-avitaminosis, 8 were in a complete state of starvation: ______for 15, 18, 22 hours, 1, 2, 4, 8 and 9 days). The animals were decapitated and from their livers sections with microtome were made. The investigation produced the following results: 1. The liver-cells of the animals suffering from avitaminosis or from starvation (especially up to 24 hours) show a higher RNA-concentration than those of the healthy and normally nurished ones. 2 In the case of increasing RNA-content the glycogen decreases as a rule. It is possible that both variations are in connection with the intensification of the glycolytic processes. It is a well-known fact that in the case of regeneration and injury

Card 2/3

Histochemical Determination of Ribonucleic Acid SOV/20-125-1-50/67 and Glycogen in the Tissues of Animals in Different Physiological States

of the cell, glycolysis is increased (Refs 3, 11). At the same time, however, the RNA-content increases too (Refs 2, 12). The problem is intended to be further investigated. There are 2 figures and 12 Soviet references.

ASSOCIATION: Sverdlovskiy gosudarstvennyy meditsinskiy institut

(Sverdlovsk State Medical Institute)

PRESENTED: October 14, 1958, by A. I. Oparin, Academician

SUBMITTED: June 2, 1958

Card 3/3

41845

S/205/62/002/004/005/014 I015/I215

27.1220

Gubin, G.D.

AUTHOR:

Histochemical investigation of the effect of ionizing radiation on the nucleic acids and glycogen in the

radiation on the audieso add

PERIODICAL: Radiobiologiya, v.2, no.4, 1962, 553-557

TEXT: No reports on the simultaneous study of nucleoprotein and carbohydrate metabolism in the liver following irradiation have been met with in medical literature. These experiments were carried out on albino rats (107 irradiated and 73 controls) of the same sex, weighing 150-170g. The irradiation lasted one hour with 800r of gamma-rays from a FYT -Co60 (GUT-Co6U) apparatus. The liver tissue, after decapitation of the animals, was fixed in Carnoy's fluid. Histochemical investigations for RNA (Brachet's Carnoy's fluid. Histochemical investigations for RNA (Brachet's method), DNA (Feulgen's method) and glycogen (Shabadash's method) were carried out 24, 48 and 72 hours after the irradiation. The first visible changes were those of a decrease in DNA concentration

Card 1/2

S/205/62/002/004/005/014 1015/1215

Histochemical investigation of ...

in the cell nuclei 24 hours after irradiation. RNA and glycogen were unaltered at that time. The two latter components showed alterations within 48 hours: the concentration of the first in the cytoplasm increased and that of the second decreased. This process continued during the third day after irradiation. The mechanism of the phenomenon observed is unexplained. There are 3 figures.

ASSOCIATION:

Sverdlovskiy meditsinskiy institut (Institute of

Medicine, Sverdlovsk)

SUBMITTED:

October 19, 1960

Card 2/2

ACCESSION NR: AR4027227 S/0299/64/000/002/M014/M014

SOURCE: RZh. Biologiya, Abs. 2M72

AUTHOR: Barbarin, V. V.; Gubin, G. D.; Kostromskaya, V. A.

TITLE: (2M72) Effect of ionizing radiation on tissue respiration. Indices of nucleic acid and glycogen in the process of regeneration

SOURCE: Sb. tr. Sverdl. med. in-t, vy*p. 39, 1963, 26-37

TOPIC TAGS: radiation, radiation sickness, respiration, tissue respiration, tissue regeneration, nucleic acid

ABSTRACT: In the regenerating planaria Dendrocoelium lacteum and Planaria forva, exposed or unexposed to irradiation (700 r) the authors determined respiratory quotient by the Warburg method, ribonucleic acid by the method of Brachet, and glycogen by the method of Shabadash. It was shown that during regeneration of exposed and unexposed animals, oxygen consumption decreased, and respiration in both groups of animals was characterized by a high level of the aerobic portion of oxido-reductive processes. In the early stages of regeneration, the amount of ribonucleic acid in the cytoplasm increased and the glycogen Card 1/2

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ACCESSION NR: AR4025764

S/0299/64/000/003/P059/P059

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SOURCE: RZh. Biologiya, Abs. 3P393

AUTHOR: Barbarin, V. V.; Gubin, G. D.; Kostromskaya, V. A.

TITLE: (3P393) The effect of ionizing radiation on oxidation-reduction processes, the dynamics of carbohydrate metabolism, and nucleic acids in frog liver

SOURCE: Sb. tr. Sverdl. med. in-t, vy*p. 39, 1963, 38-43

TOPIC TAGS: radiation, radiation sickness, cell respiration, carbohydrate metabolism, DNA, nucleic acid, liver

ABSTRACT: In experiments on frogs (Rana ridibunda) subjected to ionizing radiation at doses of 1000, 1500, and 2000 r, the following were determined: RNA content by the method of Brachet, DNA by the Feulgen method, glycogen by the Shabadash method, and the qualitative and quantitative respiratory quotients of the hepatic cells on addition of KCN as an inhibitor of oxygen consumption. Normally, 58.6% of the intracellular respiration of liver cells proceeds via a pathway which is inhibited by cyanide, and this is completely blocked 1 day

Card 1/2

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in in of	after irradiation. Similar decreases in cellular DNA and glycogen and increases in RNA were observed 18 hours after irradiation and on subsequent days (up to and including day 16). This decrease in the role of the cyanide-inhibited portion of the respiratory chain, plus the decrease in glycogen reserves observed after irradiation, has led to the hypothesis that a hypoxic state is developed, with increased glycolytic metabolism.										
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ACCESSION NR: AR4027237

\$/0299/64/000/002/P065/P065

SOURCE: RZh. Biologiya, Abs. 2P409

AUTHOR: Mezentsev, A. I.; Gubin, G. D.

TITLE: Changes in the radiosensitivity of animals as a result of previous x-

irradiation

CITED SOURCE: Sb. tr. Sverdl. med. in-t, vy*p. 39, 1963, 110-116

TOPIC TAGS: radiosensitivity, radiation, radiation sickness, radiation resistance

ABSTRACT: In experiments on 245 albino rats, one group was subjected to a single total-body irradiation at a dose of 800 r and a second group was subjected to two irradiations at doses of 43 and then 800 r with a 7-day interval. A record was made of survival, weight change, changes in the Hb content and leukocyte count in the peripheral blood, the condition of the animals, and the histological index (ONA, RNA and glycogen content of the liver). Previous irradiation increased survival of irradiated animals 2-5-fold (with the exception of a group of animals with an initial weight higher than 300 g, where the survival rate remained unchanged). Radiation sickness of such pre-irradiated animals was less severe. In addition, the RNA and glycogen content of pre-irradiated animals changed only slightly. ONA

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Card 2/2		.*						menan noch

GUPIN, G. N.

Gubin, G. N. -- "A Study of the Immunobiological Properties of Strains of the Hoof-and-Mouth Virus Isolated in the USSR between 1951 and 1953." All-Union Inst of Experimental Veterinary Medicine, Min Agriculture USSR. Moscow, 1956. (Dissertation for the Degree of Candidate in Weterinary Science)

So; Enizhnaya Letenis', Mo 12, 1956

RATNER, S.I., professor; KOROLEV, G.P.; GUBIN, G.N.; KOMOLOVA, R.P.

A case of foot-and-mouth disease of prolonged duration in man. Klin. med. 34 no.7:70-77 Jl 156.

1. Is infektsionnogo otdeleniya Klinicheskoy ordena Lenina bol'nitey imeni S.P.Botkina (nauchnyy rukovoditel' - prof. S.I.Ratner, glavnyy vrach - prof. A.E.Shabanov), Mauchno-proisvodstvennoy laboratorii vrach - prof. A.E.Shabanov), Mauchno-proisvodstvennoy laboratorii vsesoyusnogo Ministerstva sovkhosov RSFSR i Vashchurnoy laboratorii vsesoyusnogo instituta eksperimental'noy veterinarii (dir. - prof. E.I.Leonov) (FOOT-AND-MOUTH DISKASE, case reports in man, prolonged duration)

137-58-5-8808 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 10 (USSR)

AUTHOR: Gubin, G. V.

TITLE: Investigation of the Metallurgical Properties of Granules Ob-

tained by a Chemical Catalytic Method (Issledovaniye metallurgicheskikh svoystv granul, poluchennykh khimiko-kataliticheskim

of orly explored representation should be represented the restriction of the state of the representation of the second state o

metodom)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree

of Candidate of Technical Sciences, presented to the In-t metallurgii AN SSSR (Institute of Metallurgy, Academy of Sciences,

USSR), Moscow, 1957.

ASSOCIATION: In-t metallurgii AN SSSR (Institute of Metallurgy, Academy

of Sciences, USSR), Moscow.

1. Particles--Metallurgical analysis 2. Particles--Catalysis

Card 1/1

(5 U. В / N₎ (5 V

AUTHOR: Gubin, G.V. (Moscow).

24-6-6/24

TITLE: Metallurgical properties of ore-coal pellets.

(Metallurgicheskiye svoystva rudno-ugol'nykh okatyshey).

PERIODICAL: "Izvestiya Akademii Nauk, Otdeleniye Tekhnicheskikh Nauk" (Bulletin of the Ac.Sc., Technical Sciences Section), 1957, No.6, pp.32-36 (U.S.S.R.)

ABSTRACT: One of the acute problems is the development of an efficient pelletizing process for fine ores. In principle two methods exist for improving the strength of the pellets, one with and one without roasting. It is only recently that P. I. Kanavts has proposed a method of improving the strength of the pellets without applying high temperatures and pressures; this method was developed by the Institute of Metallurgy imeni A. A. Baykov, Ac.Sc. (Institut Metalurgii imeni A. A. Baykova AN SSSR) in cooperation with the Institute of Mined Fuel, Ac.Sc. (Institut Goryuchikh Iskopayemykh AN, SSSR). Before crushing, the material consists of 70% concentrates from the Kursk magnetic anomaly, 15% fine coke and 15% lime. This mass is then granulated and into it a catalyst solution is fed in the form of a fine powder. The thus obtained pellets are channeled into a special carburisation chamber where they

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24-6-6/24

Metallurgical properties of ore-coal pellets. (Cont.)

are subjected to the effect of CO2 containing waste gases of industrial furnaces. Due to the action of the catalyst a considerably greater strengthening of the pellets occurs than in the case of natural carburisation. For producing the pellets fine material of sizes from 1 mm up to 300 mesh is used and the intensive mixing permits the intensification of the relevant processes and thus also an increase in the The authors studied the metallurgical properties of ore-coal pellets obtained by this method, the average analysis of the studied pellets was as follows:

Fe_{total} - 40%, FeO_(Fe₃O₄) - 17.82%, C - 13.9% SiO₂ -11.36%, Al_2O_3 - 0.4%, CaO - 12.4, MgO - 1.26%

The reduction properties were studied in a flow of carbon monoxide which was fed at a rate of 2 litres/min with a speed of 1.18 cm/sec. The obtained dependence of the reduction ratio (Fe met: Fe total) on the time for various

Card 2/4 temperatures (800, 900, 1000 and 1100 C) are plotted in Fig.1. Fig.2 shows the change in the carbon content during

24-6-6/24

Metallurgical properties of ore-coal pellets. (Cont.) the reduction at 1100, 1000, 900 and 800 C, whilst Fig.3 shows the dependence of the Femet: Fetotal of the pellets as a function of time at 1000 C inside an N2 stream as well as inside a CO stream. The reduction shows particularly interesting features between 1000 and 1100 C which is attributed to the development of direct reduction reactions; a degree of reduction equalling 50% is obtained at 800, 900, 1000 and 1100 C after 28.5, 18.5, 10 and 7 mins respectively. The thereby necessary coal consumption equals 0.3, 5.3 and 7.5% respectively which indicates that the coal consumption rises sharply on increasing the temperature from 800 to 1100 C. Some of the results obtained on the softening temperature are plotted in Fig.4 which gives the dependence of the settling of the pellets and the agglomerate as a function of the softening temperature. The mechanical strength was also tested. In the original non-reduced state the specimens withstood a load of up to 80 kg/cm² and Fig.5 shows a photo of pellets of 7 to 9 mm dia. subjected to a pressure of 4 kg for 60 mins inside a CO atmosphere and Card 3/4 during that time the temperature was raised from 25 to 1100 C; in spite of the high temperature and the relatively

24-6-6/24

Metallurgical properties of ore-coal pellets. (Cont.)

high load, the pellets did not break, they only became deformed. The gas permeability was also tested and in Fig.6 the pressure loss obtained during passage of 250 m³/hr of air through a 500 mm high layer of the material with an average dia. of 395 mm is plotted. It can be seen that pellets of 10 to 20 mm iractions show a smaller resistance (by almost half) to passage of air than pellets of 5 to 11 mm fractions.

There are 6 figures and 7 references, two of which are Slavic.

SUBMITTED: February 2, 1957.

AVAILABLE:

Card 4/4

CUBIL. C.V Gubin, G.V. (Moscow). AUTHOR:

24-12-16/24

TITLE:

Increase in volume of the magnetite pellets and briquettes during reduction. (Uvelicheniye ob"yema magnetitovykh granul i briketov pri vosstanovlenii).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1957, No.12, pp.76-77 (USSR)

ABSTRACT: In investigating the metallurgical properties of ore/coal pellets obtained by chemical catalytic methods, it was established that an increase in volume takes place during reduction with carbon monoxide and this is accompanied by a considerable loss in strength. To

elucidate the conditions of swelling and the possible causes, a series of tests were made with ordinary carbonised specimens and also with pellets and briquettes produced solely from ores without any binders. As a criterion of swelling, the increase in height of the specimen in % of the initial height was taken. It was established that the size of the specimens increases only in gases with a certain CO content and that heating in a stream of hydrogen, nitrogen and air is not

Addition of fine accompanied by an increase in volume.

Card 1/2 coke increases the effect of swelling, whilst "deep

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Increase in volume of the magnetite pellets and briquettes during reduction.

carbonisation" reduces it. The curves, Fig.1, represent the increase in height of the briquettes as a function of the reduction temperature in a CO atmosphere for the temperatures 750, 800, 850, 900, 950, 1000°C. Fig.3 shows the results obtained for the size increase of pellets.

There are 3 figures and 3 references, one of which is Slavic.

SUBMITTED: September 23, 1957.

AVAILABLE: Library of Congress.

Card 2/2

REN GIVE

EUBIN, G. U.

18(4)

PHASE I BOOK EXPLOITATION

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Akademiya nauk SSSR. Institut metallurgii

Metallurgiya, metallovedeniye, fiziko-khimicheskiye metody issledovaniya (Metallurgy, Study of Netals, and Physicochemical Methods of Investigation) Moscow, Izd-vo AN SSSR, 308 p. (Series: Its: Trudy, vyp. 3) Errata slip inserted. 3,000 copies printed. /958

Resp. Ed.: I.P. Bardin, Academician; Ed. of Publishing House: A.N. Chernov; Tech. Ed.: I.F. Kuzmin.

PURPOSE: This book is of interest to researchers in metallurgy, as well as to the technical personnel of the metallurgical industry.

COVERAGE: This volume of the Trudy (Transactions) of the Institut metallurgii imeni A.A. Baykova (Metallurigical Institute im. A.A. Baykov) contains 31 studies on metallurgy, individual metals and alloys, and physicochemical methods of investigation. Some of the studies pertain to the reduction of titanomagnetites, the viscosity and other characteristics of blast furnace slag, dislocation in metals, cracking of metals due to corrosion, simultaneous

Card 1/6

sov/1896 Motallurgy, Study of Metals (Cont.) solubility of metals at various temperatures, apparatus for measuring electrical resistance and for determining the melting point of alloys and metals, optical spectral analysis, quantitative determinations by the sublimation method, and aging of alloys. Each study is accompanied by references. TABLE OF CONTENTS: Reznichenko, V.A. Reducing Titanomagnetites by Means of Carbon Monoxide 3 and Solid Carbon Tsylev, L.M., N.L. Zhilo, and G.A. Sokolov. Viscosity of Natural Primary 35 and Final Blast Furnace Slags of Cast and Conversion Iron Rudneva, A.V., N.L. Zhilo, and G.A. Sokolov. Effect of Phase Composition 52 on the Physical Properties of Blast Furnace Slags Gubin, G.V., and L.M. Tsylev. On the Reduction of Ore and Carbon Granules 63 Khodak, L.Z. Shape and Dimensions of the Combustion Zone in a Blast Furnace 69 Card 2/6

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Zhilo, N.L., G.A. Sokolov, and A.V. Rudneva. Estimates of Activation Energy of Viscous Flow Applicable to Studies of Physical Properties of Molten Slag	87
Vavilov, N.S. Study of Thermal Streams in a Recirculation Steel Furnace	98
Oding, I.A., and V.N. Geminov. Some Problems of Plastic Deformation and Phase Transition from the Standpoint of the Dislocation Theory	108
Gurov, K.P. On the Equilibrium Number of Vacancies (Holes) in Metals	122
Gurov, K.P. On the Theory of Self-diffusion in Holes of Metals	128
Gomozov, L.I. On the Theory of Alloying Heatproof Alloys	136
Osipov, K.A., Ye.M. Miroshkina, and A.N. Sotnichenko. On the Heat Resistance of Alloys of the Ni - Cu System	e 152
Card 3/6	

130-58-2-2/21 Gubin, G.V.

Organisation of Repair Services in Metallurgical Works AUTHOR: TITLE:

(Organizatsiya remontnoy sluzhby na metallurgicheskikh

राक्ष्मा ३ माल एवं भाषा (उसा पा) ।

zavodakh)

Metallurg, 1958, Nr 2, p 2, (USSR). PERIODICAL:

This is a further contribution to the discussion of the organisation of repair and maintenance services, started ABSTRACT: with two articles in Metallurg, Nr 5 (by V.F. Ivanov) and 6, and on which the Editor invites further comments. He disagrees with Ivanov's recommendation that each repair section should have its own machine-tool park for making simple, light and frequently-changed parts. He would limit the machine tools of a section to those required for fitting and assembling work. He lists his own recommendations for centralization which provide for intra-works specialisation in the production of spare and other parts, in the production of blanks and in the type of repair work.

VNIIOchermet ASSOCIATION:

Library of Congress AVAILABLE: 1. Machines-Maintenance Card 1/1

CIA-RDP86-00513R000617220006-7" **APPROVED FOR RELEASE: 09/17/2001**

Gubin, G.V. AUTHOR:

130-58-2-3/21

TTTIE:

Pelletising Pulverized Iron Ore Materials

(Okomkovaniye tonkoizmel'chennykh zhelezorudnykh materialov)

Metallurg, 1958, Nr 2, pp 3-4 (USSR). PERIODICAL:

Pointing out that the considerable fraction of ores now being subjected to beneficiation has led to the roduction of large quantities of concentrates with 80% under 0.06 mm, the ABSTRACT: author discusses the formation of such materials into blastfurnace feed. He contrasts drum and disc pelletizers and the means for firing the pellets, stating that the combined up- and down-draught sinter-strand method is superior to the shaftkiln method. He goes on to describe the "chemical catalytic" pelletizing method, proposed in 1954 by P.I. Kanavets, Candidate of Technical Sciences, Stalin prize-winner, and developed date of Technical Sciences, Stalin prize-winner, am developed by personnel of the Institut goryuchikh iskopayemykh (Institute of Mineral Fuels) and Institut metallurgii (Institute of Metallurgy) of the Ac.Sc. USSR. The finely-divided iron-ore material is mixed with fine lime and ground fuel (coke, coal or brown-coal semi-coke) and after moistening the mix is fed onto a disc pelletizer. On the pelletizer, the mix is sprayed with a solution of a catalyst whose function is to increase the rate of reaction of lime with carbon dioxide. The pellets are rate of reaction of lime with carbon dioxide. The pellets are Card1/2

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Pelletizing Pulverized Iron Ore Materials

130-58-2-3/21

transferred to a special vessel and there treated with carbon dickide containing flue gases at 55-65 °C, where the lime dissolved by the catalyst repidly changes to calcium carbonate and the pellets harden. The pellets are highly reducible, deform under load at 950 °C and soften at 1 200 - 1 300 °C. During reduction by carbon monoxide, the strength of pellets made from Kuznets Metallurgical Combine magnetic concentrates falls somewhat, but even these and Krivoy Rog concentrate ores are suitable for electric furnaces and low-shaft blast furnaces. The author states that further investigation will show the possibility and desirability of using chemical-catalytic pellets as blast-furnace feed: in contrast to fluxed sinter, the pellets contain carbon dioxide which will increase the heat requirements of the charge in the furnace.

ASSOCIATION: Institut metallurgii AN SSSR (Institute of Metallurgy

of the Ac.Sc. USSR)

AVAILABLE: Library of Congress

Card 2/2 1. Iron-Production

77421 SOV/130-60-1-4/22 18.3200

Karmazin, V. I., Gubin, G. V., Tsybenko, A. V., **AUTHORS:**

Kucher, A. M.

Blast Furnace Production. New Technology of Kerch' TITLE:

Ore Preparation for Smelting

Metallurg, 1960, Nr 1, pp 7-10 (USSR) PERIODICAL:

yn signi apla aligwaethigh

The authors emphasize the need for drastically increasing ABSTRACT:

the use of low-cost Kerch' ore (composition: 32-49% Fe, 0.35-3.5% Mn, 0.1% As, and 25-30% limonite). Previous concentration processes have not proved rational. The Scientific Research Institute for Mechanical Concentration

of Minerals of Ferrous Metallurgy (Mekhanobrchermet) has developed a process which involves roasting by natural gas. Contrary to earlier methods, the gangue (25-30% Fe) is refired at 1,100-1,200° C to dissociate

iron aluminosilicates and separate metallic iron.

Magnetic roasting at 700-800° C and subsequent magnetic separation failed to lower the Fe content in the gangue.

card 1/3

Blast Furnace Production. New Technology of Kerch' Ore Preparation for Smelting

77421 SOV/130-60-1-4/22

However, for lean ores magnetic separation is more effective, increasing Fe content in the concentrate by 6-8%. The removal of As was tested, and results showed that gaseous reducing agent in a "boiling" layer of basic ore is more effective than a solid reducing agent in a "nonboiling" layer. In another test, 78% As was removed by blowing steam through heated ore (42.7% Fe, 0.13% As) at 1,000 C. Methods of direct ore reduction were tested in a laboratory rotary furnace comprising a metal housing with a 200-mm-diam stainless steel tube sealed at one end by welding. While heating the working area, the combustion products did not penetrate into the reduction zone, allowing the maintenance of a high carbon monoxide content (to 80%). The 5-kg charge contained ore, dolomite, and coke breeze. Reduction occurred at 1,150° C. After cooling, the reduced ore was crushed and subjected to centrifugal electromagnetic separation. A concentrate with 90% Fe and gangue with 5% Fe was produced. The authors

Card 2/3

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000617220006-7 THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

Blast Furnace Production. New Technology of Kerch' Ore Preparation for Smelting

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suggest verifying the process under industrial conditions as follows: Crushed ore is subjected to magnetized roasting at 700-800° C in a furnace with a "boiling" layer where the As content is lowered and part of the ore magnetized. Roasted hot ore is subjected to dry magnetic enrichment; odlites with 57% Fe are separated from intermediate products with about 43% Fe. The intermediate products and dust are directly reduced in an alternating coal-flux layer at 1,100-1,200° C. Then the material is cooled and excess solid reducing agent separated to be reused in the charge. The recovered ore is crushed and separated. A rich concentrate with 75-90% Fe and gangue with 5-10% Fe is produced. The former is compacted and is suitable for charge in blast or steelmelting furnaces. There is 1 figure; and 3 tables.

ASSOCIATION:

Scientific Research Institute for Mechanical Concentration of Minerals of Ferrous Metallurgy

(Mekhanobrchermet) Card 3/3

CIA-RDP86-00513R000617220006-7" APPROVED FOR RELEASE: 09/17/2001

GUBIN, G.V. (Krivoy Rog); KAR AND, V.I. (Krivoy Rog); SHKOVYNA, G.D. (Krivoy Rog) Some features of the reduction of calcined pellets of concentrates from the Southern Mining and Dressing Combine by gasecus reducing agents. Izv. All SSSR. Otc. tokh. nauk. Mct. i topl. no.1:147-148
Ja-F 61. (Iron-Matellurgy)

GUBIN, G.V. (Krivoy Rog); KUCHER, A.M. (Krivoy Rog); NEVCISA, G.G. (Krivoy Rog)

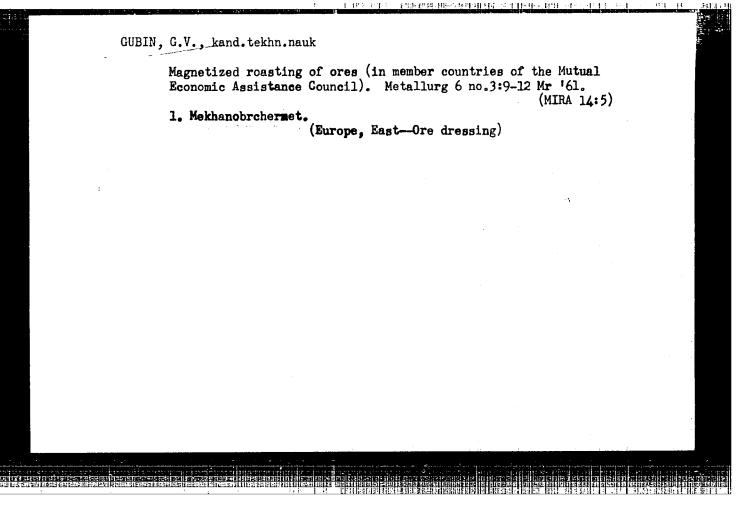
Thermal methods of treating Kerch ores for magnetic separation.

Izv. AN SSSR. Otd. tekh. nauk. Met. i topl. no.2:3-13 Mr-Ap '61.

(Kerch Peninsula—Iron ores)

(Fluidization)

(Magnetic separation of ores)



GUBIN, Georgiy Viktorovich; KUCHER, Aleksandr Mikhaylovich; BYKOV,
Gennadiy Vasil'yevich; IZMALKOV, Aleksandr Zakharovich;
YARKHO, Ye.N., otv. red.; KACHALKINA, Z.I., red. izd-va;

[Roaster of ores]Obzhigal'shchik rud. Moskva, Gosgortekhizdat, 1962. 68 p. (MIRA 15:10)

(Ore dressing)

KARMAZIN, Vitaliy Ivanovich, doktor tekhn. nauk, prof. Prinimali uchastiye: KRUTIY, V.V.; SANZHAROVSKIY, P.A.; GUBIN, G.V.; ZUBAREV, S.N., otv. red.; ARZAMASOV, N.A., red.izd-va; BOLDYREV, Z.A., tekhn. red.

[Modern methods of magnetic separation of ferrous metal ores]
Sovremennye metody magnitnogo obogashcheniia rud chernykh
metallov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1962. 658 p. (MIRA 15:3)
(Magnetic separation of ores) Iron ores)

